

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: Fri Sep 28 11:38:27 EDT 2007

=====

Application No: 10562561 Version No: 3.0

Input Set:

Output Set:

Started: 2007-09-17 15:47:30.292  
Finished: 2007-09-17 15:47:43.911  
Elapsed: 0 hr(s) 0 min(s) 13 sec(s) 619 ms  
Total Warnings: 1904  
Total Errors: 0  
No. of SeqIDs Defined: 1905  
Actual SeqID Count: 1905

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2007-09-17 15:47:30.292  
**Finished:** 2007-09-17 15:47:43.911  
**Elapsed:** 0 hr(s) 0 min(s) 13 sec(s) 619 ms  
**Total Warnings:** 1904  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 1905  
**Actual SeqID Count:** 1905

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> Sirna Therapeutics, Inc.  
 McSwiggen, James  
 Beigelman, Leonid

<120> RNA Interference Mediated Treatment of Alzheimer's Disease Using  
 Short Interfering Nucleic Acid (siNA)

<130> 400/166 (MBHB02-728-L)

<140> 10562561  
 <141> 2006-06-19

<150> PCT/US04/20516  
 <151> 2004-06-25

<150> US 10/607933  
 <151> 2003-06-27

<150> US 09/930423  
 <151> 2001-08-15

<150> PCT/US03/04710  
 <151> 2003-02-18

<150> US 10/205309  
 <151> 2002-07-25

<150> PCT/US04/16390  
 <151> 2004-05-24

<150> US 10/826966  
 <151> 2004-04-16

<150> US 10/757803  
 <151> 2004-01-14

<150> US 10/720448  
 <151> 2003-11-24

<150> US 10/693059  
 <151> 2003-10-23

<150> US 10/444853  
 <151> 2003-05-23

<150> PCT/US03/05346  
 <151> 2003-02-20

<150> PCT/US03/05028  
 <151> 2003-02-20

<150> US 60/385580  
 <151> 2002-02-20

<150> US 60/363124

<151> 2002-03-11  
  
 <150> US 60/386782  
 <151> 2002-06-06  
  
 <150> US 60/406784  
 <151> 2002-08-29  
  
 <150> US 60/408378  
 <151> 2002-09-05  
  
 <150> US 60/409293  
 <151> 2002-09-09  
  
 <150> US 60/440129  
 <151> 2003-01-15  
  
 <150> PCT/US04/13456  
 <151> 2004-04-30  
  
 <150> US 10/780447  
 <151> 2004-02-13  
  
 <150> US 10/427160  
 <151> 2004-04-30  
  
 <150> PCT/US02/15876  
 <151> 2002-05-17  
  
 <150> US 60/362016  
 <151> 2002-03-06  
  
 <150> US 60/292217  
 <151> 2001-05-18  
  
 <150> US 10/727780  
 <151> 2003-12-03  
  
 <150> US 60/543480  
 <151> 2004-02-10  
  
 <160> 1905  
  
 <170> PatentIn version 3.3  
  
 <210> 1  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 1  
 uuuccucggc agcgguagg

<210> 2  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 2  
 gcgagagcac gcggaggag 19  
  
 <210> 3  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 3  
 gcgugcgcgg gggccccgg 19  
  
 <210> 4  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 4  
 ggagacggcg gcgguggcg 19  
  
 <210> 5  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 5  
 ggcgcgggca gagcaagga 19  
  
 <210> 6  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region  
  
<400> 6  
acgcggcgga ucccacucg 19

<210> 7  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region  
  
<400> 7  
gcacagcagc gcacucggu 19

<210> 8  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region  
  
<400> 8  
ugccccgcgc agggucgcg 19

<210> 9  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region  
  
<400> 9  
gaugcugccc gguuuggca 19

<210> 10  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 10  
acugcuccug cuggccgcc 19

<210> 11  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 11  
cuggacggcu cgggcgcug 19

<210> 12  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 12  
ggagguaccc acugauggu 19

<210> 13  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 13  
uaaugcuggc cugcuggcu 19

<210> 14  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 14  
ugaaccccag auugccaug 19

<210> 15



<211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 15  
 guucuguggc agacugaac 19  
  
  
 <210> 16  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 16  
 caugcacaug aauguccag 19  
  
  
 <210> 17  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 17  
 gaauggggaag ugggauuca 19  
  
  
 <210> 18  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 18  
 agauccauca gggaccaaa 19  
  
  
 <210> 19  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 19

aaccugcauu gauaccaag

19

<210> 20

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 20

ggaaggcauc cugcaguau

19

<210> 21

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 21

uugccaagaa gucuacccu

19

<210> 22

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 22

ugaacugcag aucaccaau

19

<210> 23

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 23

ugugguagaa gccaaccaa

19

<210> 24  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 24  
 accagugacc auccagaac 19

<210> 25  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 25  
 cuggugcaag cggggccgc 19

<210> 26  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 26  
 caagcagugc aagaccgau 19

<210> 27  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 27  
 uccccacuuu gugauuccc 19

<210> 28  
 <211> 19  
 <212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 28  
cuaccgcugc uuaguuggu 19

<210> 29  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 29  
ugaguuuagua agugaugcc 19

<210> 30  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 30  
ccuucucguu ccugacaag 19

<210> 31  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 31  
gugcaaaauuc uuacaccag 19

<210> 32  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 32  
 ggagagggaug gauguuugc 19

<210> 33  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region

<400> 33  
 cgaaacucau cuucacugg 19

<210> 34  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region

<400> 34  
 gcacaccguc gccaaagag 19

<210> 35  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region

<400> 35  
 gacaugcagu gagaagagu 19

<210> 36  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region

<400> 36  
 uaccaacuug caugacuac 19

<210> 37  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 37  
 cggcauguug cugcccugc 19

<210> 38  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 38  
 cggaauugac aaguuccga 19

<210> 39  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 39  
 agggguagag uuugugugu 19

<210> 40  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 40  
 uugcccacug gcugaagaa 19

<210> 41  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 41  
aagugacaauguggauucu 19

<210> 42  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 42  
ugcugaugcgaggaggau 19

<210> 43  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 43  
ugacucggau gucuggugg 19

<210> 44  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 44  
gggcggagca gacacagac 19

<210> 45  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 45

cuaugcagau gggagugaa 19

<210> 46

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 46

agacaaagua guagaagua 19

<210> 47

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 47

agcagaggag gaagaagug 19

<210> 48

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 48

ggcugaggug gaagaagaa 19

<210> 49

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 49

agaagccgau gaugacgag 19

<210> 50

<211> 19



<212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 50  
 ggacgaugag gauggugau 19  
  
  
 <210> 51  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 51  
 ugagguagag gaagaggcu 19  
  
  
 <210> 52  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 52  
 ugaggaaccc uacgaagaa 19  
  
  
 <210> 53  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
  
 <400> 53  
 agccacagag agaaccacc 19  
  
  
 <210> 54  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA

sense region

<400> 54

cagcauugcc accaccacc

19

<210> 55

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA

sense region

<400> 55

caccaccacc acagagucu

19

<210> 56

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA

sense region

<400> 56

uguggaagag gugguucga

19

<210> 57

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA

sense region

<400> 57

agaggugugc ucugaacaa

19

<210> 58

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA

sense region

<400> 58

agccgagacg gggccgugc

19

<210> 59  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 59  
 ccgagcaaug aucucccg 19  
  
 <210> 60  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 60  
 cugguacuuu gaugugacu 19  
  
 <210> 61  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 61  
 ugaagggaag ugugcccca 19  
  
 <210> 62  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 62  
 auucuuuuac ggcggaugu 19  
  
 <210> 63  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 63  
 uggcggcaac cggaacaac 19

<210> 64  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 64  
 cuuugacaca gaagaguac 19

<210> 65  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 65  
 cugcauggcc guguguggc 19

<210> 66  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 66  
 cagcgccaug ucccaaagu 19

<210> 67  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 67  
uuuacucaag acuacccag 19

<210> 68  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 68  
ggaaccucuu gcccgagau 19

<210> 69  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 69  
uccuguuaaaa cuuccuaca 19

<210> 70  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 70  
aacagcagcc aguaccccu 19

<210> 71  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 71  
ugaugccguu gacaaguau 19

<210> 72

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA  
sense region

<400> 72

ucucgagac